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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/943,424	08/30/2001	Avi Kliger	TIA-001	7853
HOFFMAN W CRYSTAL CE	HOFFMAN WASSON & GITLER, P.C CRYSTAL CENTER 2, SUITE 522		EXAMINER  NGUYEN, STEVEN H D	
2461 SOUTH CLARK STREET ARLINGTON, VA 22202-3843			ART UNIT	PAPER NUMBER
·	,		2616	
			MAIL DATE	DELIVERY MODE
			05/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)				
		09/943,424	KLIGER ET AL.				
O	ffice Action Summary	Examiner ·	Art Unit				
		Steven H.D Nguyen	2616				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Rep	יי NED STATUTORY PERIOD FOR REI	DLV IS SET TO EVOIDE 2 MONT	H/C) OB THIBTY (20) DAVC				
WHICHEVE - Extensions of after SIX (6) N - If NO period f - Failure to rep Any reply rec	ER IS LONGER, FROM THE MAILING time may be available under the provisions of 37 CFR MONTHS from the mailing date of this communication. For reply is specified above, the maximum statutory perity within the set or extended period for reply will, by state ived by the Office later than three months after the maximum adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be lid will apply and will expire SIX (6) MONTHS from tute, cause the application to become ABANDO	ON.  It timely filed  om the mailing date of this communication.  NED (35 U.S.C. § 133).				
Status							
1)⊠ Resp	onsive to communication(s) filed on <u>05</u>	5 March 2007.					
2a)☐ This a	action is <b>FINAL</b> . 2b) T	his action is non-final.					
3)☐ Since	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
close	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of	Claims						
4)⊠ Claim	(s) <u>50-65</u> is/are pending in the applica	ition.					
4a) O	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)∏ Claim	Claim(s) is/are allowed.						
6)⊠ Claim	Claim(s) <u>50-65</u> is/are rejected.						
<u> </u>							
8) Claim	(s) are subject to restriction and	d/or election requirement.					
Application Pa	pers						
9)∐ The s <sub>l</sub>	pecification is objected to by the Exam	iner.					
10) <u></u> The di	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applio	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Repla	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) <u></u> The o	ath or declaration is objected to by the	Examiner. Note the attached Office	ce Action or form PTO-152.				
Priority under	35 U.S.C. § 119						
	wledgment is made of a claim for fore b)  Some * c)  None of:	ign priority under 35 U.S.C. § 119	(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.							
2.	Certified copies of the priority docume	•					
3	•	•	ived in this National Stage				
* See the	application from the International Bur a attached detailed Office action for a l	• • • •	wed				
oce un	s attached detailed Office action for a l	ist of the defined doples not read	vod.				
Attachment(s)		_					
	ferences Cited (PTO-892)	4) Interview Summa Paper No(s)/Mail					
3) X Information I	aftsperson's Patent Drawing Review (PTO-948) Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informa	al Patent Application				
Paper No(s)	Mail Date 4/67, 3/05, 10/04, 2/04	, 4 /0 しょんy <sup>6) □</sup> Other:					

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

## **DETAILED ACTION**

### Election/Restrictions

1. Applicant's election without traverse of a group IV in the reply filed on 3/5/07 is acknowledged.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 50-55 and 57-58 rejected under 35 U.S.C. 102(b) as being anticipated by James (USP 5052029).

Regarding claim 50, James discloses a method for communicating over the coax backbone (Fig 1, Ref 20) between network modules (Fig 1, Ref 10), the method comprising transmitting a cycle start burst over the backbone to start a transmission cycle during which the network modules transmit bursts over the backbone (Fig 2, Ref 60); allocating a first portion of the transmission cycle for the transmission of isochronous bursts by the network modules (Fig 2, Ref 7); and allocating a second portion the transmission cycle for the transmission of asynchronous bursts by the network modules (Fig 2, Ref 80).

Regarding claim 51, James discloses establishing a transmission order for the network modules to follow when transmitting isochronous bursts over the backbone (Col. 5, lines 5-11).

Regarding claim 52, James discloses the cycle start burst includes the transmission order (Fig 2, Ref 60).

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Regarding claim 53, James discloses establishing a transmission order for the network modules to follow when transmitting asynchronous bursts over the backbone (Fig 2, Ref 80).

Regarding claim 54, James discloses the cycle start burst includes the transmission order Fig 2, Ref 60).

Regarding claim 55, James discloses determining that the transmission cycle has ended and allowing transmission of an asynchronous burst to complete after the end of the transmission cycle (Fig 2).

Regarding claim 57, James discloses designating one of the modules to be a master network module, and wherein the master module transmits the cycle start burst (Fig 3, Ref 120).

Regarding claim 58, James discloses synchronizing the network modules to the cycle start burst (Fig 3, Ref 120).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 56, 59-60, 63 rejected under 35 U.S.C. 103(a) as being unpatentable over James in view of Roy (USP 6831899).

Regarding claims 56, 59-60 and 63, James does not disclose determining those network modules that are requesting bandwidth for transmitting isochronous bursts; allocating bandwidth in the first portion of the transmission cycle to each network module requesting a guaranteed quality of service; monitoring, by a given network module, isochronous bursts on the backbone

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to determine when that network module can transmit an isochronous burst and transmitting a registration start burst. In the same field of endeavor, Roy discloses an IRM is used to determine and assigned the bandwidth for node in the first cycle (Col. 10, lines 8-28) and transmitting a registration start burst (Col. 9, lines 29-47).

Since a method for assigning bandwidth for a node being well-know and expected in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to apply a method for assigning the bandwidth for node based on a request and transmitting a registration start burst as disclosed by Roy into the teaching of James. The motivation would have been to improve throughput of isochronous mode.

6. Claims 61-62 and 64-65 rejected under 35 U.S.C. 103(a) as being unpatentable over James in view of Edens (USP 6611537).

Regarding claims 61-62, James does not disclose monitoring, by a given network module, asynchronous bursts on the backbone to determine when the given network module can transmit an asynchronous burst by issuing a grant to the given network node. In the same field of endeavor, Edens discloses a method and system for determining when a node can transmit async packet by receiving a grant (Col. 5, line 63 to col. 6, line 5).

Since, a method for determining which node can be transmitted during the async period is well knows and expected in the art. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to apply a method for determining which node can transmit during the async period by issuing a grant to the given node as disclosed by Edens into the teaching of James. The motivation would have been to prevent data loss.

Regarding claims 64-65, James fails to disclose transmitting, by a given network module, an empty burst if the given network module has no data to transmit during the second portion of the transmission cycle and transmitting, by a given network module, a self-train burst. However, the examiner takes an official notice that a method and system for transmitting a null packet when it has no data to transmit and transmitting a symbol a few time "self-train" are well-know and expected in the art at the time of invention was made. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to apply these methods into James' method. The motivation would have been to easy to synchronize with the network.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven H.D Nguyen whose telephone number is (571) 272-3159. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Welling Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Steven H.D Nguyen Primary Examiner Art Unit 2616